

इंटरनेट

मानक

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IS 8595 (1977): Terminology for parameters of stationary steam boilers [MED 1: Boilers and Pressure Vessels]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 JUNE 1980
TO
IS:8595-1977 TERMINOLOGY FOR PARAMETERS
OF STATIONARY STEAM BOILERS

Alteration

(Page 1, clause 2.3, line 3) - Substitute 'super-heater outlet header' for 'outlet of pressure system'.

(EDC 40)

Reprography Unit, ISI, New Delhi



Indian Standard

REAFFIRMED

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TERMINOLOGY FOR PARAMETERS OF STATIONARY STEAM BOILERS

1. Scope — Covers the terminology for parameters of stationary steam boilers. The standard is not applicable for waste heat boilers and boilers for special purposes.

2. Terminology

2.1 Basic Parameters of Boiler — Pressure of main steam, temperature of main steam, pressure and temperature of cold and reheated steam and temperature of feed water are the basic parameters of the boiler.

2.2 Maximum Continuous Rating (MCR) — Maximum steam output in tonnes/hour (gross) which the boiler should give continuously for not less than 72 hours while maintaining the specified values of basic parameters.

For bagasse type of boilers it is the maximum steam output in tonnes/hour (gross) which the boiler should give continuously for not less than 22 hours per day for 3 consecutive days maintaining the specified values of basic parameters.

2.3 Pressure of Main Steam — Pressure of main steam (gauge) at boiler outlet. It shall be measured before the main steam stop valve of the boiler. In the absence of the main steam stop valve, it is measured at the outlet of pressure system of the boiler. In the case of boilers without superheaters the pressure is that of saturated steam.

2.4 Temperature of Main Steam — Temperature of steam at the outlet of the boiler. It is measured at a place as close as practicable where the pressure of main steam is measured.

2.5 Pressure and Temperature of Reheated Steam — Pressure and temperature measured at the inlet and exit of the reheater.

2.6 Temperature of Feed Water — Temperature of water before the heat transfer from fuel. It is measured before the place where the heat transfer from the fuel to the feed water begins, that is, before the economiser.

In the case of boilers without economiser, it shall be measured before entry to the boiler drum. In case, the condenser of the attemperator of main steam is placed before the economiser, the temperature shall be measured before the condenser of attemperator.

2.7 Specified Values of Basic Parameters — The values of the basic parameters specified to be maintained at maximum continuous rating of the boiler.

2.8 Maximum Pressure of Main Steam — The lowest pressure (gauge) at which the safety valve connected immediately after the superheater is set to blow. If the boiler has no superheater then the maximum pressure shall be taken to be equal to the lowest pressure at which a drum safety valve is set to blow.

2.9 Design Pressure — For natural or assisted circulation boilers the design pressure is the maximum allowable working pressure (gauge) in the steam drum of the boiler.

For once-through forced circulation boilers, the design pressure is the maximum allowable working pressure at the final superheater steam outlet.

2.10 Calculation Pressure — The calculation pressure of any part is the design pressure (gauge) adjusted to take into account the pressure drops corresponding to the most severe conditions of pressure drop and hydraulic head.

2.11 Maximum Temperature of Main Steam or Reheated Steam — The maximum temperature of steam at the outlet of the superheater or at the outlet of the reheater respectively. In case the boiler is without the superheater the main steam temperature shall be that of the saturated steam.

Adopted 27 October 1977

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